

Fgl2 (m): 293T Lysate: sc-120252

BACKGROUND

Fibrinogen-like protein 2 (Fgl2), also known as fibroleukin, is secreted by T cells and is involved in diseases in which thrombosis plays a pivotal role, such as virus-induced fulminant hepatitis, fetal loss syndrome and xenograft rejection. Constitutively expressed in cytotoxic T cells, Fgl2 exerts immunosuppressive effects on both T cell proliferation and dendritic cell maturation. Fgl2 is a serine protease and directly cleaves prothrombin to thrombin. Fgl2 functions in the pathogenesis of diseases including viral-induced hepatitis and Th1 cytokine-induced fetal loss syndrome.

REFERENCES

1. Ning, Q., Liu, M., Kongkham, P., Lai, M.M., Marsden, P.A., Tseng, J., Pereira, B., Belyavskyi, M., Leibowitz, J., Phillips, M.J. and Levy, G. 1999. The nucleocapsid protein of murine hepatitis virus type 3 induces transcription of the novel Fgl2 prothrombinase gene. *J. Biol. Chem.* 274: 9930-9936.
2. Yuwaraj S., Ding, J., Liu, M., Marsden, P.A. and Levy, G.A. 2001. Genomic characterization, localization, and functional expression of Fgl2, the human gene encoding fibroleukin: a novel human procoagulant. *Genomics* 71: 330-338.
3. Chan C.W., Kay, L.S., Khadaroo, R.G., Chan, M.W., Lakatoo, S., Young, K.J., Zhang, L., Gorczynski, R.M., Catral, M., Rotstein, O. and Levy, G.A. 2003. Soluble fibrinogen-like protein 2/fibroleukin exhibits immunosuppressive properties: suppressing T-cell proliferation and inhibiting maturation of bone marrow-derived dendritic cells. *J. Immunol.* 170: 4036-4044.
4. Ning, Q., Lakatoo, S., Liu, M., Yang, W., Wang, Z., Phillips, M.J. and Levy, G.A. 2003. Induction of prothrombinase Fgl2 by the nucleocapsid protein of virulent mouse hepatitis virus is dependent on host hepatic nuclear factor-4 α . *J. Biol. Chem.* 278: 15541-15549.
5. Olson, G.E., Winfrey, V.P., NagDas, S.K. and Melner, M.H. 2004. Region-specific expression and secretion of the fibrinogen-related protein, Fgl2, by epithelial cells of the hamster epididymis and its role in disposal of defective spermatozoa. *J. Biol. Chem.* 279: 51266-51274.
6. Ghanekar, A., Mendicino, M., Liu, H., He, W., Liu, M., Zhong, R., Phillips, M.J., Levy, G.A. and Grant, D.R. 2004. Endothelial induction of Fgl2 contributes to thrombosis during acute vascular xenograft rejection. *J. Immunol.* 172: 5693-5701.

CHROMOSOMAL LOCATION

Genetic locus: Fgl2 (mouse) mapping to 5 A3.

PRODUCT

Fgl2 (m): 293T Lysate represents a lysate of mouse Fgl2 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

APPLICATIONS

Fgl2 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive Fgl2 antibodies. Recommended use: 10-20 μ l per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.